

Session Title: Thermal Hydraulics and Severe Accident Code Development and Application

Description: The session will focus on current issues in the thermal-hydraulics and severe accident arenas, and NRC's efforts to address them, including experimental and analytical tool development programs. In particular, NRC's analytical and development efforts related to the TRAC/RELAP Advanced Computational Engine (TRACE) and the MELCOR codes, and NRC's use of computational fluid dynamics codes will be discussed.

Session Chair: Jennifer Uhle, NRC/RES

Panelists:

Release of Symbolic Nuclear Analysis Program (SNAP) 1.0 - Features and Applications
Presentation View Handout View

Chester Gingrich, NRC/RES

NRC Computer Codes and Applications in the Regulatory Process
Presentation View Handout View

Ralph Landry, NRC/NRO

MELCOR Analyses to Address Regulatory Issues: Evaluation of System Success Criteria
Presentation View Handout View

Hossein Esmaili, NRC/RES

MELCOR Analyses to Address Regulatory Issues: The Use of MELCOR in the Treatment of Main Steam Isolation Valve Leakage in BWR Dose Analyses
Presentation View Handout View

Michael Salay, NRC/RES

Thermal-Hydraulic and Ignition Phenomena Characterization of Prototypical PWR Assemblies
Presentation View Handout View

Ghani Zigh, NRC/RES

Rod Bundle Heat Transfer Test Results: Space Grid Effects and Potential Impact on LOCA Evaluation Model
Presentation View Handout View

Stephen Bajorek, NRC/RES

Session Coordinator: Matthew Bernard, NRR/RES, tel: (301) 251-7550, E-mail:
Matthew.Bernard@nrc.gov